

Joslyn Clark's Compact CV Series Vacuum Contactors and Starters are ideal for tough industrial applications. The compact design provides flexibility for retrofitting air break contactors, thus enabling an existing application to continue with maintenance cost and down time eliminated.

These compact CV Series Contactors and Starters are suitable for worldwide applications and for use with all types of motors including high efficiency IEC and NEMA design E motors.

The CV Series are easily interchangeable with NEMA Air Break contactors & starters. This series also features a simplified DC magnet system with range rated economized coils for improved reliability.

International Ratings For Global Applications  
 UL508 Listed | CSA22.2 certified | NEMA ICS-2 | IEC 947-4.1

Mechanically Interlocked versions are available for reversing applications.



## Features

- Front Accessible
- Long Mechanical & Electrical Life
- Mounts in any plane
- Class 20 Bi-metallic overload relays
- Quiet, Rugged Design
- Standard with On/OFF Indicator
- Compact, Lightweight
- Side mounted auxiliary contacts



# COMPACT VACUUM CONTACTOR

## CV Series



### NEMA Size 6 Specifications

Catalog Numbers <sup>1</sup>	CV77U030606-**	CV77U036A06-**	CV77036A15-**
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Power Ratings Enclosed			
Rated Insulating & Operating Voltage	600V	1,000V	1,500V
Rated Operating Current - AC1	540A	600A	600A
Rated Operating Power - AC3	400HP 460/575V	750 HP 550KW-660V	500HP 900KW-1,500V
Rated Operating Power - AC4	250HP 460/575V	525 HP 390KW-660V	950HP 700KW-1,500V
Rated Frequency	50-400Hz		
Making Current	6,000A		
Breaking Current	4,800A		
Dielectric Strength / B.I.L.	6,000V (1 Minute per Interrupter)		
Interrupting Current	6,000A		
Short Time Withstand Current (50ms)	30,000A		
Short Time Current (1s)	9,000A		
Short Time Current (10s)	4,800A		
Mechanical Life (No Load)	750,000 cycles		
Electrical Life at Rated Current (AC3 Duty)	500,000 cycles		
Switching Frequency	300 cycles per hour		
Chopping Current	0.9A		
Operating Range at Rated Voltage	-15% +10%		
Closing Power / Duration	1600VA   20ms		
Holding Power	10-12.5VA		
Average Opening Time	160ms		
Average Closing Time	20-40ms		
Average Pick-Up at Rated Voltage	≤85%		
Average Drop-Out at Rated Voltage	≤70%		
Recommended Control Transformer	500VA Machine Tool Transformer; 5% Regulation at 20%pf		

Application Ratings	
Mounting Installation	All Planes (Contactor only)
Altitude	Up to 6,600 ft. (2,000 m)
Operating Temperature Range	-40°F (-40°C) +122°F (50°C)
Vibration / Shock	40Hz - 2G. / 30G.
Weight	33 lbs. (14.97 kg)
Auxiliary Contacts	1 N.C. & 1 N.O. (standard); 3 N.C. & 3 N.O. (optional)

#### Coil Voltages

Suffix	Coil Voltage
-76	110/120VAC 50/60Hz
-26	220/240VAC 50/60Hz
-125	125VDC
-150	250VDC

#### Motor HP/KW AC3

Voltage	540A	600A
200/208V	150/112	200/149
220/240V	200/149	200/149
380/415V	300/224	350/261
440V	350/261	400/298
460/480V	400/298	450/336
575V	500/373	550/40
600V	500/373	600/448
660/690V	-	650/485
1,000V	-	1,000/746
1,500V	-	1,500/1119

#### Three Phase Transformer Load KVA

Voltage	540A	600A
200/208V	178/185	197/205
220/240V	195/213	217/237
380/415V	338/369	375/410
440V	391	434
460/480V	409/426	454/474
575V	511	568
600V	533	592
660/690V	-	652/681
1,000V	-	987
1,500V	-	1,481

#### Three Phase Transformer Load KVAR

Voltage	540A	600A
200/208V	132/136	147/153
220/240V	144/160	162/177
380/415V	252/276	279/306
440V	292	324
460/480V	304/320	339/354
575V	380	423
600V	400	444
660/690V	-	486/510
1,000V	-	734
1,500V	-	1,110

#### NOTES:

<sup>1</sup>Consult factory for certifications and approvals.

